

DECISION DOCUMENT
WADF SOUTH DUMP, SWMU J-13
Hawthorne Army Depot
Hawthorne, Nevada
November 1999

1. PURPOSE OF DECISION DOCUMENT

1.1 Introduction

This decision document describes the rationale for the removal action at, and closure of, Solid Waste Management Unit (SWMU) J-13, WADF South Dump, at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. This decision document was developed by the U.S. Army Corps of Engineers Sacramento District (USACE), HWAD, and Day & Zimmermann Hawthorne Corporation, with support from the Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP).

1.2 Site Description and Background

SWMU J-13 occupies an area of about 7500 square feet and is located northwest of Building 117-10 and southwest of Building 117-9 in the WADF Area.

The site was reportedly identified from examination of aerial photographs (EMSL, 1980). One 1980 aerial photograph shows a depression that was interpreted as possible liquid waste ponds (RAI 1992). According to base personnel, this interpretation was incorrect. Since the 1970s, the area has been used for excavating and stockpiling fill soil during construction of Building 117-10 and other nearby construction. Drums containing solvents and oils were also stored in this area during construction activities. A site inspection by RAI identified a rusted 55 gallon drum and piles of reinforced concrete scraps.

Tetra Tech reviewed all previous work done for the Group B SWMUs and compiled an annotated bibliography for past work (Tetra Tech, 1993).

Tetra Tech inspected the site in November 1993. The site is located in a shallow depression bounded by the perimeter road of the WADF Area. According to T. Erickson (personal communication November 2, 1993) and L. Dellamonica (personal communication April 28, 1994, [no documentation]) the site had never been used for disposal of hazardous waste. At the time of the site inspection, the site contained several soil piles and scattered blocks and fragments of concrete rubble. It appeared that the site had been used for disposal of construction waste. A crushed 55-gallon drum, possibly the same one identified by the SSI report (RAI, 1992), was observed. Two banks of transformers that possibly contain polychlorinated biphenyls (PCBs) (PCB stickers present) are on the northwest side of Building 117-10. Except for the drum, no evidence of hazardous waste disposal was observed.

The depth to ground water at the site was expected to be about 20 feet. Based upon historical data, existing monitoring wells in the area that

are associated with the WADF lined surface impoundments were located cross-gradient from the site, but none were downgradient. Tetra Tech conducted a basewide ground water level survey in March, 1994. Based on this survey, ground water at SWMU J-13 was estimated at an elevation of 3,990 feet msl (25 feet bgs).

1.3 Chemicals of Concern

The potential chemicals of concern are listed in Table 1.

TABLE 1 - SUMMARY OF CHEMICALS OF CONCERN

Chemical of Concern	Rationale Behind Designation	Reference
Metals	Possible disposal of metal debris	USACE 1993
Petroleum Hydrocarbons	Past storage of oils	USACE 1993
Volatile Organic Compounds	Past storage of solvents	USACE 1993
Polychlorinated Biphenyls	Two banks of transformers that possibly contained PCBs located on site	USACE 1993

2. SUMMARY of SITE RISK

All soils analyzed for PCBs were non-detect.

One hand auger sample at a depth of three feet detected total petroleum hydrocarbons as diesel (TPH-d) at 1.3 mg/kg. Total xylenes at concentrations 0.5 to 2.1 ug/kg were also detected. TPH-d and total xylenes detected were at concentrations below their respective closure goals. All metal detections were also below closure goals. Low concentrations of methylene chloride were detected in two hand auger and three soil boring samples. This VOC has been previously detected in travel blanks associated with this sampling event and therefore are not representative of the soil conditions.

3. SUMMARY of REMEDIAL INVESTIGATIONS and REMEDIAL ACTIONS

3.1 Remedial Investigations

3.1.1 Objectives

The objective of the investigation at SWMU J-13 was:

- To determine the presence of metals, volatiles, petroleum hydrocarbons, and PCBs in the near surface and subsurface soils at the site.

This objective was met.

3.1.2 Planned and Actual Investigation

Planned and actual field investigation activities are described in Table 2. Figure J-13-2 shows the location of the actual field investigation activities at SWMU J-13. A permanent monument was installed and surveyed, and SWMU boundaries delineated, at the locations shown on these figures. The appendices of this report include HWAD proposed closure goals for soils, lab results and detection limits, survey results, and photographs. All activities were conducted based on the Work Plan (Tetra Tech, 1994a), Site Safety and Health Plan (Tetra Tech, 1994b) and the Chemical Data Acquisition Plan (Tetra Tech, 1994c).

TABLE 2 - SUMMARY OF PLANNED AND ACTUAL FIELD INVESTIGATIONS

Planned Investigation	Actual Investigation	Comments
Soil Gas Survey - 20 samples at 20 locations surrounding the depression	Soil Gas Survey - 9 samples at 9 locations surrounding the depression	Based upon ND results of first 9 samples, remaining 11 samples were not collected
Near Surface Sampling - Hand auger sampling at 5 locations at 2 and 5 ft. depths, 2 samples per location	Near Surface Sampling - Hand auger sampling at 5 locations at 2 and 5 ft. depths, 2 samples per location	
Subsurface Sampling - CPT ^a sounding at 1 location to 40 ft. CPT sampling at 3 locations to 40 ft., 4 samples per location	Subsurface Sampling - CPT sounding at 1 location to 40 ft. CPT sampling at 3 locations between 15 and 29 ft., 2 to 3 samples per location	Refusal at lower depths
Surveying - GPS ^b at soil gas survey, hand auger and CPT sample locations	Surveying - GPS at soil gas survey, hand auger and CPT sample locations	

^aCPT = Cone penetrometer testing

^bGPS = Global positioning system

Soil samples collected and analyses performed include the following:

Sample Locations	Depth (ft)	Metals Analyses	PCB Analyses	BTEX Analyses	TPH-D Analyses	VOCs Analyses
Near Surface						
HA01-HA05 5 locations	2 & 5	Y Y	Y Y	Y Y	Y Y	Y Y
Subsurface						
SB01	10, 15, 29	Y	Y	N	Y	Y
SB02	10 & 16	Y	Y	N	Y	Y
SB03	10 & 15	Y	Y	N	Y	Y

3.1.3 Results

Nine soil gas probes were installed and sampled for volatile organic compounds (VOCs) and benzene, toluene, ethylbenzene, and xylene (BTEX). Table 3 lists soil gas analytical results for BTEX and VOCs. All samples were reported non-detect.

TABLE 3 - SUMMARY OF SOIL GAS SURVEY ANALYTICAL RESULTS

Sample Number	Sampled Date	Sample Depth (ft)	VOCs (ug/L) EPA Method 8010-M	BTEX (ug/L) EPA Method 8020-M
Near Surface Sampling				
J13-SG-01	26-Jun-94	5.0	ND*	ND
J13-SG-02	26-Jun-94	5.0	ND	ND
J13-SG-03	26-Jun-94	5.0	ND	ND
J13-SG-04	26-Jun-94	5.0	ND	ND
J13-SG-05	26-Jun-94	5.0	ND	ND
J13-SG-06	26-Jun-94	5.0	ND	ND
J13-SG-07	26-Jun-94	5.0	ND	ND
J13-SG-08	26-Jun-94	5.0	ND	ND
J13-SG-09	26-Jun-94	5.0	ND	ND

*ND = Below laboratory method detection limit for all analytes

One CPT sounding to a depth of 40 feet was performed at the site. The stratigraphic interpretation from the CPT logs indicate interlayered clays, silty sand and sand.

Tables 4 and 5 list the metals, BTEX, VOCs, and total petroleum hydrocarbons as diesel (TPH-d) analytical results for soil. The associated background levels and the proposed closure goals of metals are also shown in Table 4.

TABLE 4 - SUMMARY OF METALS ANALYTICAL RESULTS

Sample Number	Sampled Date	Sample Depth	Metals (mg/kg)							
			EPA Method 6010 (Method 7471 for Hg)							
			As	Ba	Cd	Cr	Pb	Hg	Se	Ag
Near Surface Sampling										
J13-HA01-1-S	21-Aug-94	1.75 - 2.0	9.2	100	0.26	3.6	6.1	ND*	ND	ND
J13-HA01-2-S	21-Aug-94	4.75 - 5.0	20	110	ND	1.0	ND	ND	ND	ND
J13-HA02-1-S	21-Aug-94	1.75 - 2.0	6.3	74	ND	5.7	ND	ND	ND	ND
J13-HA02-2-S	21-Aug-94	4.75 - 5.0	ND	58	ND	4.1	ND	ND	ND	ND
J13-HA03-1-S	21-Aug-94	1.75 - 2.0	9.0	100	0.24	3.5	ND	ND	ND	ND
J13-HA03-2-S	21-Aug-94	4.75 - 5.0	13	98	ND	1.7	ND	ND	ND	ND
J13-HA04-1-S	21-Aug-94	1.75 - 2.0	11	62	ND	1.1	ND	ND	ND	ND
J13-HA04-2-S	21-Aug-94	4.75 - 5.0	8.0	61	ND	4.2	ND	ND	ND	ND
J13-HA05-1-S	21-Aug-94	1.75 - 2.0	6.7	78	0.27	3.6	6.3	ND	ND	ND
J13-HA05-2-S	21-Aug-94	4.75 - 5.0	ND	43	0.31	2.5	ND	ND	ND	ND
Subsurface Sampling										
J13-SB01-1-S	21-Aug-94	10.00 - 10.25	ND	63	ND	4.5	ND	ND	ND	ND
J13-SB01-2-S	21-Aug-94	15.25 - 15.50	ND	89	ND	6.5	ND	ND	ND	ND
J13-SB01-3-S	21-Aug-94	28.75 - 29.00	6.7	73	0.53	4.1	ND	ND	ND	ND
J13-SB02-1-S	21-Aug-94	10.25 - 10.50	ND	48	0.31	8.1	ND	ND	ND	ND
J13-SB02-2-S	21-Aug-94	15.75 - 16.00	ND	26	0.34	7.6	ND	ND	ND	ND
J13-SB03-1-S	21-Aug-94	10.00 - 10.25	ND	58	ND	8.6	ND	ND	ND	ND
J13-SB03-2-S	21-Aug-94	14.75 - 15.00	5.2	130	ND	23	27	ND	ND	ND
Associated Background Samples	Soil Series	Mappable Unit	As	Ba	Cd	Cr	Pb	Hg	Se	Ag
B-11	Mazuma	570	22	42	0.63	4.9	ND	ND	ND	ND
B-12	Mazuma	570	27	77	0.24	2.7	ND	ND	ND	ND
B-42	Mazuma	570	10	74	ND	1.7	ND	ND	ND	ND
Proposed Closure Goals			30	5600	40	80,000	1000	24	400	400

*ND = Below laboratory method detection limit for all analytes

TABLE 5 - SUMMARY OF BTEX, VOCs AND TPH-DIESEL ANALYTICAL RESULTS

Sample Number	Sampled Date	Sample Depth (ft)	BTEX (mg/kg) Immunoassay Test	VOCs (ug/kg) EPA Method 8260	TPH-Diesel (mg/kg) EPA Method 8015-M
Near Surface Sampling					
J13-HA01-1-S	21-Aug-94	2.0 - 3.0	<2	ND*	1.26
J13-HA01-2-S	21-Aug-94	5.0 - 6.0	>2 & <10	ND	ND
J13-HA02-1-S	21-Aug-94	2.0 - 3.0	>2 & <10	2.8 methylene chloride	ND
J13-HA02-2-S	21-Aug-94	5.0 - 6.0	<2	ND	ND
J13-HA03-1-S	21-Aug-94	2.0 - 3.0	>2 & <10	ND	ND
J13-HA03-2-S	21-Aug-94	5.0 - 6.0	<2	3.0 methylene chloride	ND
J13-HA04-1-S	21-Aug-94	2.0 - 3.0	<2	ND	ND
J13-HA04-2-S	21-Aug-94	5.0 - 6.0	<2	ND	ND
J13-HA05-1-S	21-Aug-94	2.0 - 3.0	<2	ND	ND
J13-HA05-2-S	21-Aug-94	5.0 - 6.0	<2	ND	ND
Subsurface Sampling					
J13-SB01-1-S	21-Aug-94	10.25 - 11.0	--	2.4 methylene chloride	ND
				2.1 total xylenes	
J13-SB01-2-S	21-Aug-94	15.75 - 16.75	--	ND	ND
J13-SB01-3-S	21-Aug-94	29.00 - 29.50	--	ND	ND
J13-SB02-1-S	21-Aug-94	10.50 - 11.00	--	ND	ND
J13-SB02-2-S	21-Aug-94	16.25 - 16.75	--	2.4 methylene chloride	ND
J13-SB03-1-S	21-Aug-94	10.50 - 11.00	--	ND	ND
J13-SB03-2-S	21-Aug-94	14.25 - 14.75	--	1.9 methylene chloride	ND

*ND = Below laboratory method detection limit for all analytes

Table 6 lists analytical results for PCBs. All results were non-detect.

TABLE 6 - SUMMARY OF PCBs ANALYTICAL RESULTS

Sample Number	Sampled Date	Sample Depth (ft)	PCBs (mg/kg) Immunoassay Test
Near Surface Sampling			
J13-HA01-1-S	21-Aug-94	2.25 - 2.75	<1
J13-HA01-2-S	21-Aug-94	5.25 - 5.75	<1
J13-HA02-1-S	21-Aug-94	2.25 - 2.75	<1
J13-HA02-2-S	21-Aug-94	5.25 - 5.75	<1
J13-HA03-1-S	21-Aug-94	2.25 - 2.75	<1
J13-HA03-2-S	21-Aug-94	5.25 - 5.75	<1
J13-HA04-1-S	21-Aug-94	2.25 - 2.75	<1
J13-HA04-2-S	21-Aug-94	5.25 - 5.75	<1
J13-HA05-1-S	21-Aug-94	2.25 - 2.75	<1
J13-HA05-2-S	21-Aug-94	5.25 - 5.75	<1
Subsurface Sampling			
J13-SB01-1-S	21-Aug-94	11.50 - 11.75	<1
J13-SB01-2-S	21-Aug-94	16.25 - 16.50	<1
J13-SB02-1-S	21-Aug-94	11.50 - 11.75	<1
J13-SB03-1-S	21-Aug-94	10.25 - 10.50	<1

3.2 Remedial Actions

3.2.1 Summary of Remedial Alternatives

The excavation pit will be backfilled with clean soil and contoured to prevent infiltration and erosion.

3.2.2 Summary of Remedial Actions

The soil berm around the site was leveled and contoured to the surrounding surface. Photographs of the site before and after implementation of this alternative are attached at Appendix D.

4. CONCLUSIONS and RECOMMENDATIONS

For comparison, the HWAD proposed closure goals for all analytes are listed in Appendix A. These closure goals were used in evaluating the detected chemicals. Table 7 summarizes the samples with detected levels of chemicals of concern.

TABLE 7 - SUMMARY OF DETECTED CHEMICALS OF CONCERN

Sample Number	Sampled Date	Sample Depth (ft)	VOCs (ug/kg)	TPH-Diesel (mg/kg)
			EPA Method 8260	EPA Method 8015-M
J13-HA01-1-S	21-Aug-94	2.0 - 3.0	ND ^a	1.26
J13-SB01-1-S	21-Aug-94	10.25 - 11.00	2.1 total xylenes	

^aND = Below laboratory method detection limits for all analytes

All soils analyzed for PCBs were non-detect.

One hand auger sample at a depth of three feet detected TPH-d at 1.3 mg/kg. Total xylenes at concentrations 0.5 to 2.1 ug/kg were also detected. TPH-d and total xylenes detected were at concentrations below their respective closure goals. All metal detections were also below closure goals. Low concentrations of methylene chloride was detected in two hand auger and three soil boring samples. This VOC has been previously detected in travel blanks associated with this sampling event and therefore are not representative of the soil conditions.

It is recommended that no further investigation be performed at this SWMU and that the site be closed with regard to the chemicals of concern and without land use restrictions.

5. PUBLIC/COMMUNITY INVOLVEMENT

It is U.S. Department of Defense and Army policy to involve the local community throughout the investigation process at an installation. To initiate this involvement, HWAD has established a repository in the local public library, which includes final copies of all past studies and documents regarding environmental issues at the facility. This repository will be maintained and updated with all future final documents as they are issued to HWAD.

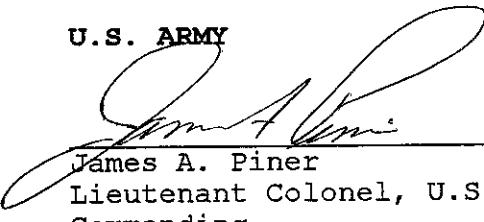
HWAD has solicited community participation in establishment of the restoration advisory board (RAB). However, because of insufficient public response, HWAD has not formed a RAB. HWAD will continue to solicit community involvement.

6. DECLARATION

The selected remedy is protective of human health and the environment. It has been shown that a complete exposure pathway to human health and the environment does not exist, and there is no potential for such an exposure pathway to be completed in the future.

4 Nov 99
Date

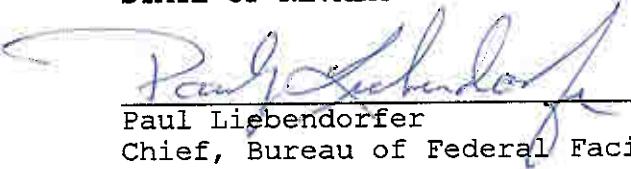
U.S. ARMY



James A. Piner
Lieutenant Colonel, U.S. Army
Commanding

22 Nov 99
Date

STATE OF NEVADA

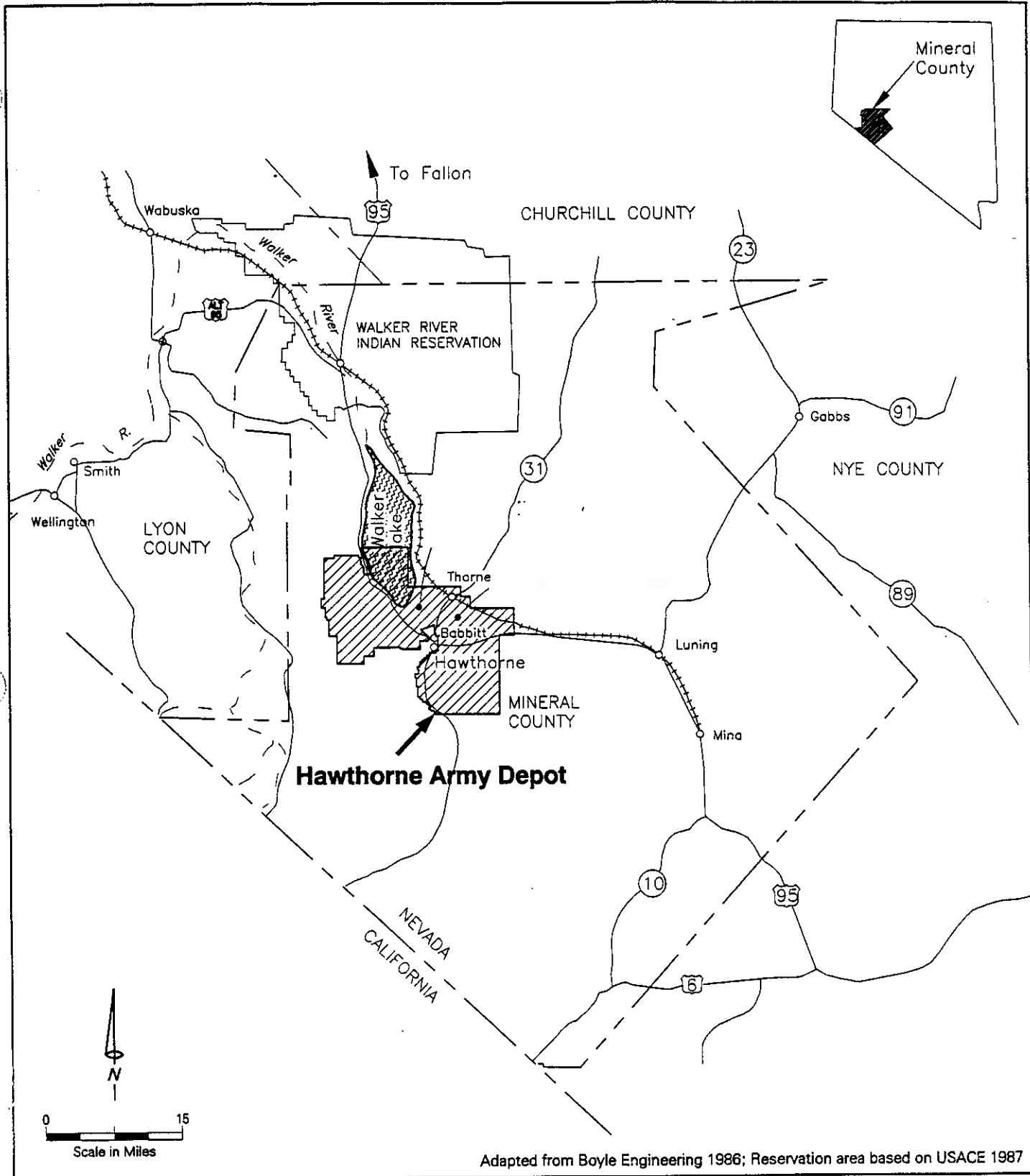


Paul Liebendorfer
Chief, Bureau of Federal Facilities

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- Tetra Tech. 1996. Hawthorne Army Depot Remedial Investigation Group B Solid Waste Management Units, Final Closure Report, SWMU A-03 Coal Ash Landfill, SWMU B-28a 108-20a EO Spill Impoundment, SWMU B-28b 108-20b EO spill Impoundment, SWMU B-28c 104-8 EO Spill Impoundment, SWMU B-28d 104-10 EO Spill Impoundment, SWMU I-14 Bldg 46 Spill Site, SWMU J-04 107 Drum Storage, SWMU J-05 Dock 1 Landfill, SWMU J-06 Dock 2 Landfill, SWMU J-07 Dock 3 Landfill, SWMU J-08 Dock 4 Landfill, SWMU J-09 Dock 5 Landfill, SWMU J-10 Dock 6 Landfill, SWMU J-13 WADF South Dump, SWMU J-17 Thorne Drum Area, SWMU J-21 Bldg 97 Old Dock Area, SWMU J-22 50 Group Pits, SWMU J-24 Trench near 50-60.
- USACE. 1993. Installation Action Plan for Hawthorne Army Ammunition Plant (HWAAP), prepared by S. Hong.

Figures



Location Map

Legend

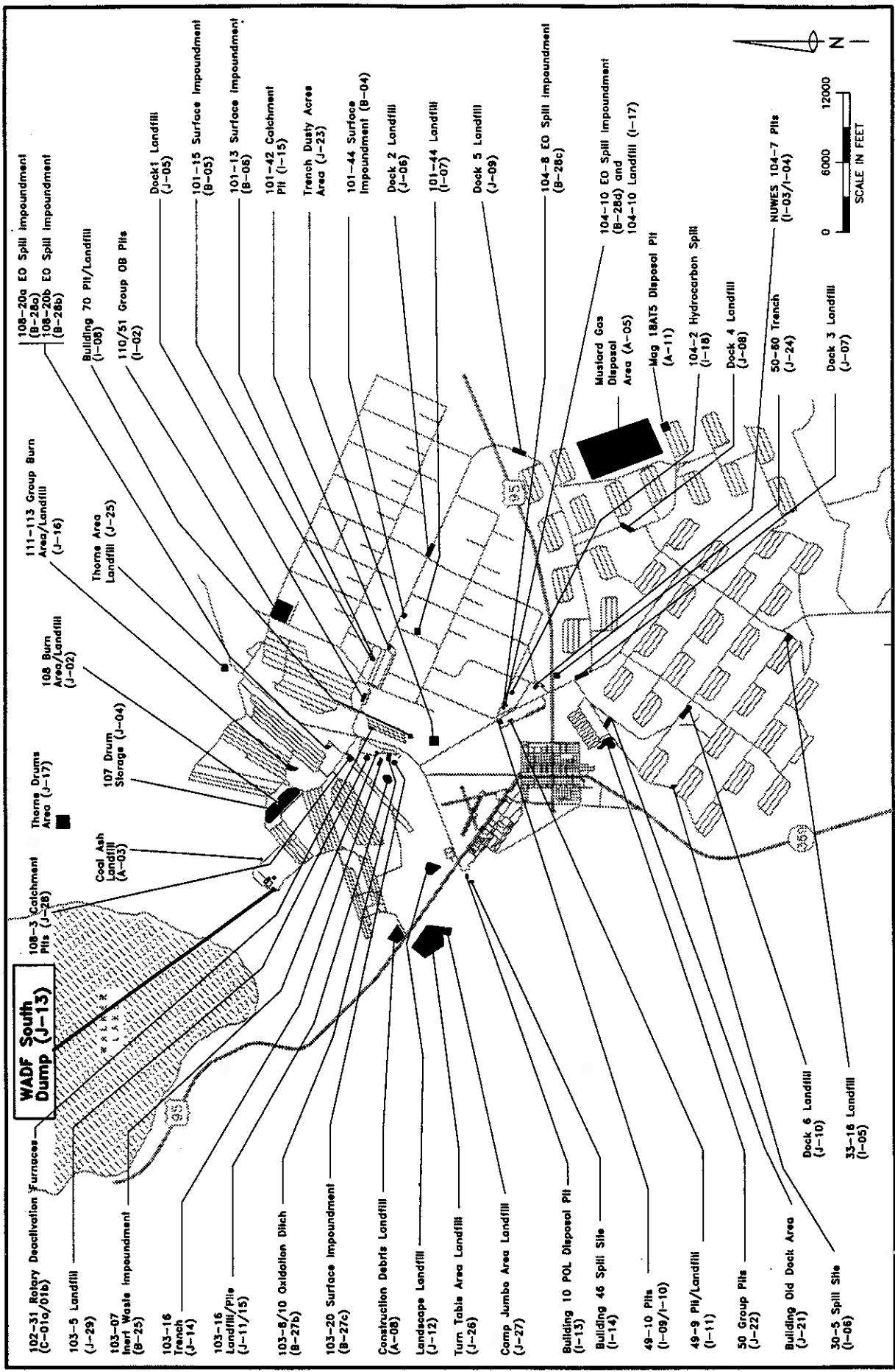


Hawthorne Army Depot

Hawthorne Army Depot
Hawthorne, Nevada

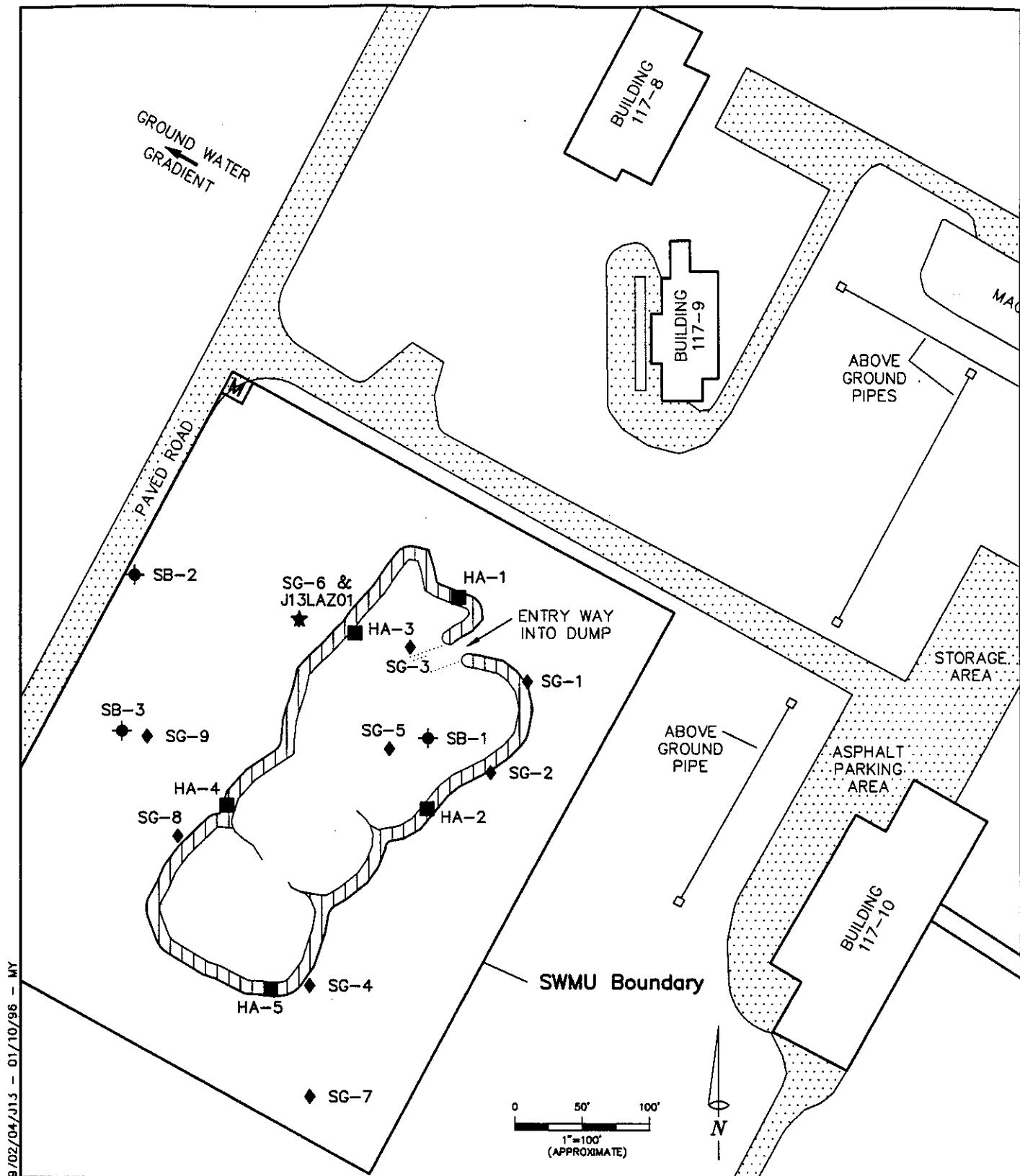


Tetra Tech, Inc.



Hawthorne Army Depot
Location Map
TETRA TECH

Hawthorne, Nevada
Figure SWMU-J-13-1



LEGEND:

- ★ SWMU Reference point
- ◆ SG-X Soil gas sample location and number
- HA-X Hand auger sample location and number
- ◆ SB-X Soil boring location and number

- [Berm/Pile] Berm/Pile
- [Monument location] Monument location

TETRA TECH

**Activity Map
SWMU J-13
WADF South Dump
Hawthorne Army Depot
Hawthorne, Nevada**

Source: Base map digitized from Aerial Photo Survey, June 1994. Geophysical data from Geophysical Survey, NORCAL, August 1994.

Figure J-13-2

Appendix A

Proposed Closure Goals
Hawthorne Army Depot
Hawthorne, Nevada

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-carcinogenic (NC)	HWAD Proposed Closure Goals for Soil (mg/kg)	HWAD Proposed Closure Goal Source
Nitrate	Anion	NC	128,000	Calculated Subpart S ^a
2-Amino-dinitrotoluene	Explosive	NC	-	NA ^b
4-Amino-dinitrotoluene	Explosive	NC	-	NA
1,3-Dinitrobenzene	Explosive	NC	8	Calculated Subpart S
2,4-Dinitrotoluene	Explosive	NC	160	Calculated Subpart S
2,6-Dinitrotoluene	Explosive	NC	80	Calculated Subpart S
HMX	Explosive	NC	4,000	Calculated Subpart S
Nitrobenzene	Explosive	NC	40	Calculated Subpart S
Nitrotoluene (2-, 3-, 4-)	Explosive	NC	800	Calculated Subpart S
RDX	Explosive	NC	64	Calculated Subpart S
Tetryl	Explosive	NC	800	Calculated Subpart S
1,3,5-Trinitrobenzene	Explosive	NC	4	Calculated Subpart S
2,4,6-Trinitrotoluene	Explosive	C	233	Calculated Subpart S
Aluminum	Metal	NC	80,000	Calculated Subpart S
Arsenic (cancer endpoint)	Metal	C & NC	30	Background ^c
Barium and compounds	Metal	NC	5,600	Calculated Subpart S
Beryllium and compounds	Metal	C	1	Background
Cadmium and compounds	Metal	NC	40	Calculated Subpart S
Chromium III and compounds	Metal	NC	80,000	Calculated Subpart S
Lead	Metal	NC	1000	PRG ^d
Mercury and compounds (inorganic)	Metal	NC	24	Calculated Subpart S
Selenium	Metal	NC	400	Calculated Subpart S
Silver and compounds	Metal	NC	400	Calculated Subpart S
Acenaphthene	PAH	NC	4,800	Calculated Subpart S
Benzo[a]anthracene	PAH	C	0.96	Calculated Subpart S
Benzo[a]pyrene	PAH	C	0.10	Detection Limit ^e
Benzo[b]fluoranthene	PAH	C	0.96	Calculated Subpart S
Benzo[k]fluoranthene	PAH	C	10	Calculated Subpart S
Chrysene	PAH	C	96	Calculated Subpart S
Dibenz[ah]anthracene	PAH	C	0.96	Calculated Subpart S
Fluoranthene	PAH	NC	3,200	Calculated Subpart S
Fluorene	PAH	NC	3,200	Calculated Subpart S
Indeno[1,2,3-cd]pyrene	PAH	C	-	NA
Naphthalene	PAH	NC	3,200	Calculated Subpart S
Pyrene	PAH	NC	2,400	Calculated Subpart S
Total Petroleum Hydrocarbons as Diesel (TPH-d)	PAH	C	100	NDEP Level Clean-up ^f
Polychlorinated biphenyls (PCBs)	PCBs	C	25	TSCA ^g
Bis(2-ethylhexyl)phthalate (DEHP)	SVOC	C	1,600	Calculated Subpart S
Bromoform (tribromomethane)	SVOC	C	89	Calculated Subpart S

Proposed Closure Goals
Hawthorne Army Depot
Hawthorne, Nevada

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-carcinogenic (NC)	NWAD Proposed Closure Goals for Soil (mg/kg)	NWAD Proposed Closure Goal Source
Butyl benzyl phthalate	SVOC	NC	16,000	Calculated Subpart S
Dibromochloromethane	SVOC	C	83	Calculated Subpart S
Dibutyl-phthalate	SVOC	NC	8,000	Calculated Subpart S
Diethyl phthalate	SVOC	NC	64,000	Calculated Subpart S
Phenanthrene	SVOC	-	-	NA
Phenol	SVOC	NC	48,000	Calculated Subpart S
Acetone	VOC	NC	800	Calculated Subpart S
Anthracene	VOC	NC	24,000	Calculated Subpart S
Benzene	VOC	C	24	Calculated Subpart S
Bis(2-chloroisopropyl)ether	VOC	C	3,200	Calculated Subpart S
Bromomethane	VOC	NC	112	Calculated Subpart S
Carbon tetrachloride	VOC	C	5	Calculated Subpart S
Chlorobenzene	VOC	NC	1,600	Calculated Subpart S
Chloroform	VOC	C	115	Calculated Subpart S
Chloromethane	VOC	C	538	Calculated Subpart S
Dibromomethane	VOC	C	0.008	Calculated Subpart S
1,2-Dichlorobenzene	VOC	NC	7,200	Calculated Subpart S
1,4-Dichlorobenzene	VOC	C	18,300	Calculated Subpart S
Dichlorodifluoromethane	VOC	C	16,000	Calculated Subpart S
Ethylbenzene	VOC	NC	8,000	Calculated Subpart S
Methylene bromide	VOC	NC	800	Calculated Subpart S
Methylene chloride	VOC	C	4,800	Calculated Subpart S
2-Methylnaphthalene	VOC	-	-	NA
1,1,2,2-Tetrachloroethane	VOC	C	35	Calculated Subpart S
Tetrachloroethylene (PCE)	VOC	C & NC	800	Calculated Subpart S
Toluene	VOC	NC	16,000	Calculated Subpart S
1,1,1-Trichloroethane	VOC	NC	7,200	Calculated Subpart S
Trichloroethylene (TCE)	VOC	C & NC	480	Calculated Subpart S
Trichlorofluoromethane	VOC	NC	24,000	Calculated Subpart S
1,2,3-Trichloropropane	VOC	C	480	Calculated Subpart S
Vinyl chloride	VOC	C	0.37	Calculated Subpart S
Xylene Total (m-, o-, p-)	VOC	NC	160,000	Calculated Subpart S
2,3,7,8-TCDD	Dioxin	C	0.000005	Calculated Subpart S

* RCRA 55 FR 30870

† Not available

‡ Highest background concentration detected in 50 background soil samples

§ Smucker, Stanford J. USEPA Region IX, Preliminary Remedial Goals, Second Half, Sep. 1995

¶ Method detection limit for Volatile Organic Compounds by EPA Method 8260 or

Semi-Volatile Organic Compounds analyzed by EPA Method 8270

'Nevada Division of Environmental Protection

* Cleanup level for PCB spills in accordance with Toxic Substance and Control Act Spill Policy Guidelines 40 CFR 761

Appendix B



FINAL

Summary Table of Analytical Data

SWMU J13 - WADF South Dump

Hawthorne Army Depot

Hawthorne, Nevada

January 1996



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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-HA01-1-S	1.75-2.0	8/21/94	6010	Arsenic	9.2	mg/kg	J
J13-HA01-1-S	1.75-2.0	8/21/94	6010	Barium	100	mg/kg	
J13-HA01-1-S	1.75-2.0	8/21/94	6010	Cadmium	0.26	mg/kg	J
J13-HA01-1-S	1.75-2.0	8/21/94	6010	Chromium	3.6	mg/kg	J
J13-HA01-1-S	1.75-2.0	8/21/94	6010	Lead	6.1	mg/kg	J
J13-HA01-1-S	1.75-2.0	8/21/94	6010	Selenium	< 5	mg/kg	
J13-HA01-1-S	1.75-2.0	8/21/94	6010	Silver	< 1	mg/kg	
J13-HA01-1-S	1.75-2.0	8/21/94	7471	Mercury	< 0.04	mg/kg	
J13-HA01-1-S	2.0-2.25	8/21/94	8015M	TPH (as diesel)	1.26	mg/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Methylene chloride	< 0.4	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-HA01-1-S	2.75-3.0	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	



Summary Table of Analytical Data

SWMU J13 - WADF South Dump

Hawthorne Army Depot

Hawthorne, Nevada

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-HA01-1-S	2.0-2.25	8/21/94	D2216	Moisture/TNFR	8.3	percent	
J13-HA01-1-S	2.0-2.25	8/21/94	D2216	Moisture/TNFR	8.1	percent	
J13-HA01-1-S	2.0-2.25	8/21/94	D2216	Moisture/TNFR	1.4	percent	
J13-HA01-1-S	2.25-2.75	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	
J13-HA01-1-S	2.25-2.75	8/21/94	D4031	Immunoassay BTEX	<2	mg/kg	

J13-HA01-2-S	4.75-5.0	8/21/94	6010	Arsenic	20	mg/kg	J
J13-HA01-2-S	4.75-5.0	8/21/94	6010	Barium	110	mg/kg	
J13-HA01-2-S	4.75-5.0	8/21/94	6010	Cadmium	< 0.2	mg/kg	
J13-HA01-2-S	4.75-5.0	8/21/94	6010	Chromium	1	mg/kg	J
J13-HA01-2-S	4.75-5.0	8/21/94	6010	Lead	< 5	mg/kg	
J13-HA01-2-S	4.75-5.0	8/21/94	6010	Selenium	< 5	mg/kg	
J13-HA01-2-S	4.75-5.0	8/21/94	6010	Silver	< 0.9	mg/kg	
J13-HA01-2-S	4.75-5.0	8/21/94	7471	Mercury	< 0.04	mg/kg	
J13-HA01-2-S	5.0-5.25	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	1,1,2-Tetrachloroethane	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	1,2-Trichloroethane	< 0.4	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	1-Dichloroethene	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	2,3-Trichloropropane	< 0.8	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	1-Dichlorobenzene	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	1,1-Dichloroethane	< 0.6	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Methylene chloride	< 0.4	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Tetrachloroethylene	< 0.6	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	



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Summary Table of Analytical Data

SWMU J13 - WADF South Dump

Hawthorne Army Depot

Hawthorne, Nevada

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-HA01-2-S	5.75-6.0	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-HA01-2-S	5.75-6.0	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-HA01-2-S	5.0-5.25	8/21/94	D2216	Moisture/TNFR	1.8	percent	
J13-HA01-2-S	5.0-5.25	8/21/94	D2216	Moisture/TNFR	1.6	percent	
J13-HA01-2-S	5.25-5.75	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	
J13-HA01-2-S	5.25-5.75	8/21/94	D4031	Immunoassay BTEX	2< X <10	mg/kg	

J13-HA02-1-S	1.75-2.0	8/21/94	6010	Arsenic	6.3	mg/kg	J
J13-HA02-1-S	1.75-2.0	8/21/94	6010	Barium	74	mg/kg	
J13-HA02-1-S	1.75-2.0	8/21/94	6010	Cadmium	< 0.2	mg/kg	
J13-HA02-1-S	1.75-2.0	8/21/94	6010	Chromium	5.7	mg/kg	
J13-HA02-1-S	1.75-2.0	8/21/94	6010	Lead	< 5	mg/kg	
J13-HA02-1-S	1.75-2.0	8/21/94	6010	Selenium	< 5	mg/kg	
J13-HA02-1-S	1.75-2.0	8/21/94	6010	Silver	< 0.9	mg/kg	
J13-HA02-1-S	1.75-2.0	8/21/94	7471	Mercury	< 0.04	mg/kg	
J13-HA02-1-S	2.0-2.25	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	



Summary Table of Analytical Data

SWMU J13 - WADF South Dump

Hawthorne Army Depot

Hawthorne, Nevada

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Methylene chloride	2.8	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-HA02-1-S	2.75-3.0	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-HA02-1-S	2.0-2.25	8/21/94	D2216	Moisture/TNFR	1.1	percent	
J13-HA02-1-S	2.0-2.25	8/21/94	D2216	Moisture/TNFR	0.9	percent	
J13-HA02-1-S	2.25-2.75	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	
J13-HA02-1-S	2.25-2.75	8/21/94	D4031	Immunoassay BTEX	2< X <10	mg/kg	

J13-HA02-2-S	4.75-5.0	8/21/94	6010	Arsenic	< 4	mg/kg	
J13-HA02-2-S	4.75-5.0	8/21/94	6010	Barium	58	mg/kg	
J13-HA02-2-S	4.75-5.0	8/21/94	6010	Cadmium	< 0.2	mg/kg	
J13-HA02-2-S	4.75-5.0	8/21/94	6010	Chromium	4.1	mg/kg	J
J13-HA02-2-S	4.75-5.0	8/21/94	6010	Lead	< 5	mg/kg	
J13-HA02-2-S	4.75-5.0	8/21/94	6010	Selenium	< 5	mg/kg	
J13-HA02-2-S	4.75-5.0	8/21/94	6010	Silver	< 0.9	mg/kg	
J13-HA02-2-S	4.75-5.0	8/21/94	7471	Mercury	< 0.04	mg/kg	
J13-HA02-2-S	5.0-5.25	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	



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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Methylene chloride	< 0.4	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-HA02-2-S	5.75-6.0	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-HA02-2-S	5.0-5.25	8/21/94	D2216	Moisture/TNFR	2.3	percent	
J13-HA02-2-S	5.0-5.25	8/21/94	D2216	Moisture/TNFR	2	percent	
J13-HA02-2-S	5.25-5.75	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	
J13-HA02-2-S	5.25-5.75	8/21/94	D4031	Immunoassay BTEX	<2	mg/kg	

J13-HA03-1-S	1.75-2.0	8/21/94	6010	Arsenic	9	mg/kg	J
J13-HA03-1-S	1.75-2.0	8/21/94	6010	Barium	100	mg/kg	
J13-HA03-1-S	1.75-2.0	8/21/94	6010	Cadmium	0.24	mg/kg	J
J13-HA03-1-S	1.75-2.0	8/21/94	6010	Chromium	3.5	mg/kg	J
J13-HA03-1-S	1.75-2.0	8/21/94	6010	Lead	< 5	mg/kg	
J13-HA03-1-S	1.75-2.0	8/21/94	6010	Selenium	< 5	mg/kg	
J13-HA03-1-S	1.75-2.0	8/21/94	6010	Silver	< 0.9	mg/kg	
J13-HA03-1-S	1.75-2.0	8/21/94	7471	Mercury	< 0.04	mg/kg	
J13-HA03-1-S	2.0-2.25	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	



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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Methylene chloride	< 0.4	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-HA03-1-S	2.75-3.0	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-HA03-1-S	2.0-2.25	8/21/94	D2216	Moisture/TNFR	1.7	percent	
J13-HA03-1-S	2.0-2.25	8/21/94	D2216	Moisture/TNFR	1.6	percent	
J13-HA03-1-S	2.25-2.75	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	
J13-HA03-1-S	2.25-2.75	8/21/94	D4031	Immunoassay BTEX	2< X <10	mg/kg	

J13-HA03-2-S	4.75-5.0	8/21/94	6010	Arsenic	13	mg/kg	J
J13-HA03-2-S	4.75-5.0	8/21/94	6010	Barium	98	mg/kg	
J13-HA03-2-S	4.75-5.0	8/21/94	6010	Cadmium	< 0.2	mg/kg	
J13-HA03-2-S	4.75-5.0	8/21/94	6010	Chromium	1.7	mg/kg	J
J13-HA03-2-S	4.75-5.0	8/21/94	6010	Lead	< 5	mg/kg	
J13-HA03-2-S	4.75-5.0	8/21/94	6010	Selenium	< 5	mg/kg	
J13-HA03-2-S	4.75-5.0	8/21/94	6010	Silver	< 0.9	mg/kg	
J13-HA03-2-S	4.75-5.0	8/21/94	7471	Mercury	< 0.04	mg/kg	
J13-HA03-2-S	5.0-5.25	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	



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J13-HA03-2-S	5.75-6.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Methylene chloride	3	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-HA03-2-S	5.75-6.0	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-HA03-2-S	5.0-5.25	8/21/94	D2216	Moisture/TNFR	1.6	percent	
J13-HA03-2-S	5.0-5.25	8/21/94	D2216	Moisture/TNFR	1.4	percent	
J13-HA03-2-S	5.25-5.75	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	
J13-HA03-2-S	5.25-5.75	8/21/94	D4031	Immunoassay BTEX	<2	mg/kg	

J13-HA04-1-S	1.75-2.0	8/21/94	6010	Arsenic	11	mg/kg	J
J13-HA04-1-S	1.75-2.0	8/21/94	6010	Barium	62	mg/kg	
J13-HA04-1-S	1.75-2.0	8/21/94	6010	Cadmium	< 0.2	mg/kg	
J13-HA04-1-S	1.75-2.0	8/21/94	6010	Chromium	1.1	mg/kg	
J13-HA04-1-S	1.75-2.0	8/21/94	6010	Lead	< 5	mg/kg	
J13-HA04-1-S	1.75-2.0	8/21/94	6010	Selenium	< 5	mg/kg	
J13-HA04-1-S	1.75-2.0	8/21/94	6010	Silver	< 0.9	mg/kg	
J13-HA04-1-S	1.75-2.0	8/21/94	7471	Mercury	< 0.04	mg/kg	
J13-HA04-1-S	2.0-2.25	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	



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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-HA04-1-S	2.75-3.0	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Methylene chloride	< 0.4	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-HA04-1-S	2.75-3.0	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-HA04-1-S	2.0-2.25	8/21/94	D2216	Moisture/TNFR	1.1	percent	
J13-HA04-1-S	2.0-2.25	8/21/94	D2216	Moisture/TNFR	1	percent	
J13-HA04-1-S	2.25-2.75	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	
J13-HA04-1-S	2.25-2.75	8/21/94	D4031	Immunoassay BTEX	<2	mg/kg	

J13-HA04-1-SD (DP263	1.75-2.0	8/21/94	6010	Arsenic	12	mg/kg	J
J13-HA04-1-SD (DP263	1.75-2.0	8/21/94	6010	Barium	72	mg/kg	
J13-HA04-1-SD (DP263	1.75-2.0	8/21/94	6010	Cadmium	< 0.2	mg/kg	
J13-HA04-1-SD (DP263	1.75-2.0	8/21/94	6010	Chromium	3.3	mg/kg	J
J13-HA04-1-SD (DP263	1.75-2.0	8/21/94	6010	Lead	< 5	mg/kg	
J13-HA04-1-SD (DP263	1.75-2.0	8/21/94	6010	Selenium	< 5	mg/kg	
J13-HA04-1-SD (DP263	1.75-2.0	8/21/94	6010	Silver	< 0.9	mg/kg	
J13-HA04-1-SD (DP263	1.75-2.0	8/21/94	7471	Mercury	< 0.04	mg/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8080	Aroclor 1016	< 30	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8080	Aroclor 1221	< 30	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8080	Aroclor 1232	< 20	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8080	Aroclor 1242	< 30	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8080	Aroclor 1248	< 20	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8080	Aroclor 1254	< 20	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8080	Aroclor 1260	< 7	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	



Summary Table of Analytical Data

SWMU J13 - WADF South Dump

Hawthorne Army Depot

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	



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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Methylene chloride	3.2	ug/kg	U
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Methylene chloride	< 0.4	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	D2216	Moisture/TNFR	1.2	percent	
J13-HA04-1-SD (DP263	1.75-2.0	8/21/94	D2216	Moisture/TNFR	1.2	percent	
J13-HA04-1-SD (DP265	2.25-2.75	8/21/94	D2216	Moisture/TNFR	1.2	percent	
J13-HA04-1-SD (DP267	2.75-3.0	8/21/94	D2216	Moisture/TNFR	1	percent	
J13-HA04-1-SD (DP266	2.25-2.75	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	
J13-HA04-1-SD (DP266	2.25-2.75	8/21/94	D4031	Immunoassay BTEX	<2	mg/kg	

J13-HA04-2-S	4.75-5.0	8/21/94	6010	Arsenic	8	mg/kg	J
J13-HA04-2-S	4.75-5.0	8/21/94	6010	Barium	61	mg/kg	
J13-HA04-2-S	4.75-5.0	8/21/94	6010	Cadmium	< 0.2	mg/kg	
J13-HA04-2-S	4.75-5.0	8/21/94	6010	Chromium	4.2	mg/kg	J
J13-HA04-2-S	4.75-5.0	8/21/94	6010	Lead	< 5	mg/kg	
J13-HA04-2-S	4.75-5.0	8/21/94	6010	Selenium	< 5	mg/kg	
J13-HA04-2-S	4.75-5.0	8/21/94	6010	Silver	< 0.9	mg/kg	
J13-HA04-2-S	4.75-5.0	8/21/94	7471	Mercury	< 0.04	mg/kg	
J13-HA04-2-S	5.0-5.25	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	



Summary Table of Analytical Data

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-HA04-2-S	5.75-6.0	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Methylene chloride	< 0.4	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-HA04-2-S	5.75-6.0	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-HA04-2-S	5.0-5.25	8/21/94	D2216	Moisture/TNFR	1.5	percent	
J13-HA04-2-S	5.0-5.25	8/21/94	D2216	Moisture/TNFR	1.4	percent	
J13-HA04-2-S	5.25-5.75	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	
J13-HA04-2-S	5.25-5.75	8/21/94	D4031	Immunoassay BTEX	<2	mg/kg	

J13-HA05-1-S	1.75-2.0	8/21/94	6010	Arsenic	6.7	mg/kg	J
J13-HA05-1-S	1.75-2.0	8/21/94	6010	Barium	78	mg/kg	
J13-HA05-1-S	1.75-2.0	8/21/94	6010	Cadmium	0.27	mg/kg	J
J13-HA05-1-S	1.75-2.0	8/21/94	6010	Chromium	3.6	mg/kg	J
J13-HA05-1-S	1.75-2.0	8/21/94	6010	Lead	6.3	mg/kg	J
J13-HA05-1-S	1.75-2.0	8/21/94	6010	Selenium	< 6	mg/kg	
J13-HA05-1-S	1.75-2.0	8/21/94	6010	Silver	< 1.1	mg/kg	
J13-HA05-1-S	1.75-2.0	8/21/94	7471	Mercury	< 0.05	mg/kg	
J13-HA05-1-S	2.0-2.25	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	



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Summary Table of Analytical Data

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-HA05-1-S	2.75-3.0	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Methylene chloride	< 0.4	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-HA05-1-S	2.75-3.0	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-HA05-1-S	2.0-2.25	8/21/94	D2216	Moisture/TNFR	17	percent	
J13-HA05-1-S	2.0-2.25	8/21/94	D2216	Moisture/TNFR	1.9	percent	
J13-HA05-1-S	2.25-2.75	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	
J13-HA05-1-S	2.25-2.75	8/21/94	D4031	Immunoassay BTEX	<2	mg/kg	

J13-HA05-2-S	4.75-5.0	8/21/94	6010	Arsenic	< 4	mg/kg	
J13-HA05-2-S	4.75-5.0	8/21/94	6010	Barium	43	mg/kg	
J13-HA05-2-S	4.75-5.0	8/21/94	6010	Cadmium	0.31	mg/kg	J
J13-HA05-2-S	4.75-5.0	8/21/94	6010	Chromium	2.5	mg/kg	J
J13-HA05-2-S	4.75-5.0	8/21/94	6010	Lead	< 5	mg/kg	
J13-HA05-2-S	4.75-5.0	8/21/94	6010	Selenium	< 5	mg/kg	



Summary Table of Analytical Data

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-HA05-2-S	4.75-5.0	8/21/94	6010	Silver	< 0.9	mg/kg	
J13-HA05-2-S	4.75-5.0	8/21/94	7471	Mercury	< 0.04	mg/kg	
J13-HA05-2-S	5.0-5.25	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Methylene chloride	< 0.4	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-HA05-2-S	5.75-6.0	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-HA05-2-S	5.0-5.25	8/21/94	D2216	Moisture/TNFR	2.5	percent	
J13-HA05-2-S	5.0-5.25	8/21/94	D2216	Moisture/TNFR	2.4	percent	
J13-HA05-2-S	5.25-5.75	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	
J13-HA05-2-S	5.25-5.75	8/21/94	D4031	Immunoassay BTEX	<2	mg/kg	

J13-SB01-1-ER	n/a	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.2	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	1,1,1-Trichloroethane	2.4	ug/L	



Summary Table of Analytical Data

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-SB01-1-ER	n/a	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.07	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	1,1,2-Trichloroethane	< 0.2	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	1,1-Dichloroethane	< 0.08	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	1,1-Dichloroethene	< 0.06	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	1,2,3-Trichloropropane	< 0.4	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	1,2-Dichlorobenzene	< 0.09	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	1,2-Dichloroethane	< 0.3	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	1,2-Dichloropropane	< 0.4	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	1,3-Dichlorobenzene	< 0.1	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	1,4-Dichlorobenzene	< 0.2	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	2-Chloroethylvinylether	< 0.3	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Benzene	< 0.1	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Benzyl chloride	< 0.3	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Bromobenzene	< 0.2	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Bromodichloromethane	< 0.09	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Bromoform	< 0.07	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Bromomethane	< 0.1	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Carbon Tetrachloride	< 0.3	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Chlorobenzene	< 0.07	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Chloroethane	< 0.1	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Chloroform	< 0.1	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Chloromethane	< 0.3	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	cis-1,3-Dichloropropene	< 0.06	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Dibromochloromethane	< 0.3	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Dibromomethane	< 0.1	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Dichlorodifluoromethane	< 0.05	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Ethylbenzene	< 0.09	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Methylene chloride	1.8	ug/L	J
J13-SB01-1-ER	n/a	8/21/94	8260	Tetrachloroethene	< 0.3	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Toluene	0.69	ug/L	J
J13-SB01-1-ER	n/a	8/21/94	8260	Total Xylene Isomers	< 0.3	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	trans-1,2-Dichloroethene	< 0.1	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	trans-1,3-Dichloropropene	< 0.09	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Trichloroethene	< 0.5	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Trichlorofluoromethane	< 0.05	ug/L	
J13-SB01-1-ER	n/a	8/21/94	8260	Vinyl chloride	< 0.07	ug/L	

J13-SB01-1-S	10.0-10.25	8/21/94	6010	Arsenic	< 5	mg/kg	
J13-SB01-1-S	10.0-10.25	8/21/94	6010	Barium	63	mg/kg	
J13-SB01-1-S	10.0-10.25	8/21/94	6010	Cadmium	< 0.2	mg/kg	
J13-SB01-1-S	10.0-10.25	8/21/94	6010	Chromium	4.5	mg/kg	J
J13-SB01-1-S	10.0-10.25	8/21/94	6010	Lead	< 6	mg/kg	
J13-SB01-1-S	10.0-10.25	8/21/94	6010	Selenium	< 6	mg/kg	
J13-SB01-1-S	10.0-10.25	8/21/94	6010	Silver	< 1	mg/kg	
J13-SB01-1-S	10.0-10.25	8/21/94	7471	Mercury	< 0.05	mg/kg	
J13-SB01-1-S	10.25-10.5	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	



Summary Table of Analytical Data

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-SB01-1-S	10.75-11.0	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.5	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	1,1,1-Trichloroethane	< 0.8	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	1,1,2-Trichloroethane	< 0.5	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	1,2,3-Trichloropropane	< 1	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	1,2-Dichloroethane	< 0.8	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	1,2-Dichloropropane	< 1	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	1,4-Dichlorobenzene	< 0.5	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	2-Chloroethylvinylether	< 0.8	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Benzyl chloride	< 0.8	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Bromobenzene	< 0.5	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Carbon Tetrachloride	< 0.8	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Chloromethane	< 0.8	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Dibromochloromethane	< 0.8	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Methylene chloride	2.4	ug/kg	J
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Tetrachloroethene	< 0.8	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Toluene	< 0.5	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Total Xylene Isomers	2.1	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-SB01-1-S	10.75-11.0	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-SB01-1-S	10.25-10.5	8/21/94	D2216	Moisture/TNFR	26	percent	
J13-SB01-1-S	10.25-10.5	8/21/94	D2216	Moisture/TNFR	14	percent	
J13-SB01-1-S	11.5-11.75	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	

J13-SB01-1-SD (DP259)	10.5-10.75	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-SB01-1-SD (DP260)	11.75-12.0	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	

Summary Table of Analytical Data



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Hawthorne Army Depot

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-SB01-2-S	15.25-15.5	8/21/94	6010	Arsenic	< 5	mg/kg	
J13-SB01-2-S	15.25-15.5	8/21/94	6010	Barium	89	mg/kg	
J13-SB01-2-S	15.25-15.5	8/21/94	6010	Cadmium	< 0.2	mg/kg	
J13-SB01-2-S	15.25-15.5	8/21/94	6010	Chromium	6.5	mg/kg	
J13-SB01-2-S	15.25-15.5	8/21/94	6010	Lead	< 6	mg/kg	
J13-SB01-2-S	15.25-15.5	8/21/94	6010	Selenium	< 6	mg/kg	
J13-SB01-2-S	15.25-15.5	8/21/94	6010	Silver	< 1.1	mg/kg	
J13-SB01-2-S	15.25-15.5	8/21/94	7471	Mercury	< 0.05	mg/kg	
J13-SB01-2-S	15.75-16.0	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	2-Chloroethylvinylether	< 0.6	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Benzyl chloride	< 0.6	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Methylene chloride	< 0.4	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	

Summary Table of Analytical Data



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SWMU J13 - WADF South Dump

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-SB01-2-S	16.5-16.75	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-SB01-2-S	15.75-16.0	8/21/94	D2216	Moisture/TNFR	19	percent	
J13-SB01-2-S	15.75-16.0	8/21/94	D2216	Moisture/TNFR	7.3	percent	
J13-SB01-2-S	16.25-16.5	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	

J13-SB01-2-SD (DP261)	15.5-15.75	8/21/94	6010	Arsenic	< 4	mg/kg	
J13-SB01-2-SD (DP261)	15.5-15.75	8/21/94	6010	Barium	33	mg/kg	
J13-SB01-2-SD (DP261)	15.5-15.75	8/21/94	6010	Cadmium	0.32	mg/kg	J
J13-SB01-2-SD (DP261)	15.5-15.75	8/21/94	6010	Chromium	4.5	mg/kg	J
J13-SB01-2-SD (DP261)	15.5-15.75	8/21/94	6010	Lead	< 5	mg/kg	
J13-SB01-2-SD (DP261)	15.5-15.75	8/21/94	6010	Selenium	< 5	mg/kg	
J13-SB01-2-SD (DP261)	15.5-15.75	8/21/94	6010	Silver	< 1	mg/kg	
J13-SB01-2-SD (DP261)	15.5-15.75	8/21/94	7471	Mercury	< 0.04	mg/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	1,2,3-Trichloropropane	< 0.9	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	1,2-Dichloropropane	< 0.9	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	2-Chloroethylvinylether	< 0.6	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Benzyl chloride	< 0.6	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Methylene chloride	1.1	ug/kg	J
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-SB01-2-SD (DP262)	16.75-17.0	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	



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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-SB01-2-SD (DP262	16.75-17.0	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-SB01-2-SD (DP262	16.75-17.0	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-SB01-2-SD (DP262	16.75-17.0	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-SB01-2-SD (DP262	16.75-17.0	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-SB01-2-SD (DP262	16.75-17.0	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-SB01-2-SD (DP262	16.75-17.0	8/21/94	D2216	Moisture/TNFR	12	percent	
J13-SB01-2-SD (DP261	15.5-15.75	8/21/94	D2216	Moisture/TNFR	8.5	percent	

J13-SB01-3-S	28.75-29.0	8/21/94	6010	Arsenic	6.7	mg/kg	J
J13-SB01-3-S	28.75-29.0	8/21/94	6010	Barium	73	mg/kg	
J13-SB01-3-S	28.75-29.0	8/21/94	6010	Cadmium	0.53	mg/kg	U
J13-SB01-3-S	28.75-29.0	8/21/94	6010	Chromium	4.1	mg/kg	J
J13-SB01-3-S	28.75-29.0	8/21/94	6010	Lead	< 6	mg/kg	
J13-SB01-3-S	28.75-29.0	8/21/94	6010	Selenium	< 6	mg/kg	
J13-SB01-3-S	28.75-29.0	8/21/94	6010	Silver	< 1	mg/kg	
J13-SB01-3-S	28.75-29.0	8/21/94	7471	Mercury	< 0.05	mg/kg	
J13-SB01-3-S	29.0-29.25	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	1,1,1-Trichloroethane	< 0.7	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	1,2,3-Trichloropropane	< 0.9	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	1,2-Dichloroethane	< 0.7	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	1,2-Dichloropropane	< 0.9	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	2-Chloroethylvinylether	< 0.7	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Benzyl chloride	< 0.7	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Carbon Tetrachloride	< 0.7	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Chloromethane	< 0.7	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Dibromochloromethane	< 0.7	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	



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J13-SB01-3-S	29.25-29.5	8/21/94	8260	Methylene chloride	< 0.4	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Tetrachloroethene	< 0.7	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Total Xylene Isomers	< 0.7	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-SB01-3-S	29.25-29.5	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-SB01-3-S	29.0-29.25	8/21/94	D2216	Moisture/TNFR	16	percent	
J13-SB01-3-S	29.0-29.25	8/21/94	D2216	Moisture/TNFR	12	percent	

J13-SB02-1-S	10.25-10.5	8/21/94	6010	Arsenic	< 4	mg/kg	
J13-SB02-1-S	10.25-10.5	8/21/94	6010	Barium	48	mg/kg	
J13-SB02-1-S	10.25-10.5	8/21/94	6010	Cadmium	0.31	mg/kg	U
J13-SB02-1-S	10.25-10.5	8/21/94	6010	Chromium	8.1	mg/kg	-
J13-SB02-1-S	10.25-10.5	8/21/94	6010	Lead	< 5	mg/kg	
J13-SB02-1-S	10.25-10.5	8/21/94	6010	Selenium	< 5	mg/kg	
J13-SB02-1-S	10.25-10.5	8/21/94	6010	Silver	< 0.9	mg/kg	
J13-SB02-1-S	10.25-10.5	8/21/94	7471	Mercury	< 0.04	mg/kg	
J13-SB02-1-S	10.5-10.75	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	2-Chloroethylvinylether	< 0.6	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Benzyl chloride	< 0.6	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	



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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Methylene chloride	< 0.4	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-SB02-1-S	10.75-11.0	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-SB02-1-S	10.5-10.75	8/21/94	D2216	Moisture/TNFR	3.8	percent	
J13-SB02-1-S	10.5-10.75	8/21/94	D2216	Moisture/TNFR	2	percent	
J13-SB02-1-S	11.5-11.75	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	

J13-SB02-1-SD (DP268)	11.75-12.0	8/21/94	8080	Aroclor 1016	< 30	ug/kg	
J13-SB02-1-SD (DP268)	11.75-12.0	8/21/94	8080	Aroclor 1221	< 30	ug/kg	
J13-SB02-1-SD (DP268)	11.75-12.0	8/21/94	8080	Aroclor 1232	< 20	ug/kg	
J13-SB02-1-SD (DP268)	11.75-12.0	8/21/94	8080	Aroclor 1242	< 30	ug/kg	
J13-SB02-1-SD (DP268)	11.75-12.0	8/21/94	8080	Aroclor 1248	< 20	ug/kg	
J13-SB02-1-SD (DP268)	11.75-12.0	8/21/94	8080	Aroclor 1254	< 20	ug/kg	
J13-SB02-1-SD (DP268)	11.75-12.0	8/21/94	8080	Aroclor 1260	< 8	ug/kg	
J13-SB02-1-SD (DP268)	11.75-12.0	8/21/94	D2216	Moisture/TNFR	13	percent	

J13-SB02-2-S	15.75-16.0	8/21/94	6010	Arsenic	< 4	mg/kg	
J13-SB02-2-S	15.75-16.0	8/21/94	6010	Barium	26	mg/kg	
J13-SB02-2-S	15.75-16.0	8/21/94	6010	Cadmium	0.34	mg/kg	U
J13-SB02-2-S	15.75-16.0	8/21/94	6010	Chromium	7.6	mg/kg	
J13-SB02-2-S	15.75-16.0	8/21/94	6010	Lead	< 6	mg/kg	
J13-SB02-2-S	15.75-16.0	8/21/94	6010	Selenium	< 6	mg/kg	
J13-SB02-2-S	15.75-16.0	8/21/94	6010	Silver	< 1	mg/kg	
J13-SB02-2-S	15.75-16.0	8/21/94	7471	Mercury	< 0.04	mg/kg	
J13-SB02-2-S	16.25-16.5	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.5	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	1,1,1-Trichloroethane	< 0.7	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	1,1,2-Trichloroethane	< 0.5	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	1,2,3-Trichloropropane	< 1	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	1,2-Dichloroethane	< 0.7	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	1,2-Dichloropropane	< 1	ug/kg	



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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-SB02-2-S	16.5-16.75	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	1,4-Dichlorobenzene	< 0.5	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	2-Chloroethylvinylether	< 0.7	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Benzyl chloride	< 0.7	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Bromobenzene	< 0.5	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Carbon Tetrachloride	< 0.7	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Chloromethane	< 0.7	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Dibromochloromethane	< 0.7	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Methylene chloride	2.4	ug/kg	J
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Tetrachloroethene	< 0.7	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Toluene	< 0.5	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Total Xylene Isomers	< 0.7	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-SB02-2-S	16.5-16.75	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-SB02-2-S	16.25-16.5	8/21/94	D2216	Moisture/TNFR	23	percent	
J13-SB02-2-S	16.25-16.5	8/21/94	D2216	Moisture/TNFR	10	percent	

J13-SB03-1-S	10.0-10.25	8/21/94	6010	Arsenic	< 4	mg/kg	
J13-SB03-1-S	10.0-10.25	8/21/94	6010	Barium	58	mg/kg	
J13-SB03-1-S	10.0-10.25	8/21/94	6010	Cadmium	< 0.2	mg/kg	
J13-SB03-1-S	10.0-10.25	8/21/94	6010	Chromium	8.6	mg/kg	
J13-SB03-1-S	10.0-10.25	8/21/94	6010	Lead	< 5	mg/kg	
J13-SB03-1-S	10.0-10.25	8/21/94	6010	Selenium	< 5	mg/kg	
J13-SB03-1-S	10.0-10.25	8/21/94	6010	Silver	< 1	mg/kg	
J13-SB03-1-S	10.0-10.25	8/21/94	7471	Mercury	< 0.04	mg/kg	
J13-SB03-1-S	10.5-10.75	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	



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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-SB03-1-S	10.75-11.0	8/21/94	8260	1,2,3-Trichloropropane	< 0.9	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	1,2-Dichloropropane	< 0.9	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	2-Chloroethylvinylether	< 0.6	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Benzyl chloride	< 0.6	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Chloromethane	< 0.6	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Methylene chloride	< 0.4	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-SB03-1-S	10.75-11.0	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-SB03-1-S	10.5-10.75	8/21/94	D2216	Moisture/TNFR	14	percent	
J13-SB03-1-S	10.5-10.75	8/21/94	D2216	Moisture/TNFR	6.6	percent	
J13-SB03-1-S	10.25-10.5	8/21/94	D4020	Immunoassay PCBs	<1	mg/kg	

J13-SB03-2-S	14.75-15.0	8/21/94	6010	Arsenic	5.2	mg/kg	J
J13-SB03-2-S	14.75-15.0	8/21/94	6010	Barium	130	mg/kg	
J13-SB03-2-S	14.75-15.0	8/21/94	6010	Cadmium	< 0.3	mg/kg	
J13-SB03-2-S	14.75-15.0	8/21/94	6010	Chromium	23	mg/kg	
J13-SB03-2-S	14.75-15.0	8/21/94	6010	Lead	27	mg/kg	J
J13-SB03-2-S	14.75-15.0	8/21/94	6010	Selenium	< 7	mg/kg	
J13-SB03-2-S	14.75-15.0	8/21/94	6010	Silver	< 1.2	mg/kg	
J13-SB03-2-S	14.75-15.0	8/21/94	7471	Mercury	< 0.05	mg/kg	
J13-SB03-2-S	14.5-14.75	8/21/94	8015M	TPH (as diesel)	< 1	mg/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	



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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-SB03-2-S	14.25-14.5	8/21/94	8260	1,1,1-Trichloroethane	< 0.7	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	1,2,3-Trichloropropane	< 0.9	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	1,2-Dichloroethane	< 0.7	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	1,2-Dichloropropane	< 0.9	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	2-Chloroethylvinylether	< 0.7	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Benzene	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Benzyl chloride	< 0.7	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Bromobenzene	< 0.4	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Bromoform	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Bromomethane	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Carbon Tetrachloride	< 0.7	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Chlorobenzene	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Chloroethane	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Chloroform	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Chloromethane	< 0.7	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Dibromochloromethane	< 0.7	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Dibromomethane	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Ethylbenzene	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Methylene chloride	1.9	ug/kg	J
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Tetrachloroethene	< 0.7	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Toluene	< 0.4	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Total Xylene Isomers	< 0.7	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Trichloroethene	< 1	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J13-SB03-2-S	14.25-14.5	8/21/94	8260	Vinyl chloride	< 0.2	ug/kg	
J13-SB03-2-S	14.5-14.75	8/21/94	D2216	Moisture/TNFR	27	percent	
J13-SB03-2-S	14.5-14.75	8/21/94	D2216	Moisture/TNFR	15	percent	

J13-SG01	5.0	6/26/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J13-SG01	5.0	6/26/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J13-SG01	5.0	6/26/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J13-SG01	5.0	6/26/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J13-SG01	5.0	6/26/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J13-SG01	5.0	6/26/94	M8010	Chloroform	< 1	ug/L	



Summary Table of Analytical Data

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-SG01	5.0	6/26/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J13-SG01	5.0	6/26/94	M8010	Methylene Chloride	< 1	ug/L	
J13-SG01	5.0	6/26/94	M8010	Tetrachloroethene	< 1	ug/L	
J13-SG01	5.0	6/26/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J13-SG01	5.0	6/26/94	M8010	Trichloroethene	< 1	ug/L	
J13-SG01	5.0	6/26/94	M8020	Benzene	< 1	ug/L	
J13-SG01	5.0	6/26/94	M8020	Ethylbenzene	< 1	ug/L	
J13-SG01	5.0	6/26/94	M8020	Toluene	< 1	ug/L	
J13-SG01	5.0	6/26/94	M8020	Total FID Volatiles	< 10	ug/L	
J13-SG01	5.0	6/26/94	M8020	Total Xylene Isomers	< 1	ug/L	

J13-SG02	5.0	6/26/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J13-SG02	5.0	6/26/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J13-SG02	5.0	6/26/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J13-SG02	5.0	6/26/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J13-SG02	5.0	6/26/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J13-SG02	5.0	6/26/94	M8010	Chloroform	< 1	ug/L	
J13-SG02	5.0	6/26/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J13-SG02	5.0	6/26/94	M8010	Methylene Chloride	< 1	ug/L	
J13-SG02	5.0	6/26/94	M8010	Tetrachloroethene	< 1	ug/L	
J13-SG02	5.0	6/26/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J13-SG02	5.0	6/26/94	M8010	Trichloroethene	< 1	ug/L	
J13-SG02	5.0	6/26/94	M8020	Benzene	< 1	ug/L	
J13-SG02	5.0	6/26/94	M8020	Ethylbenzene	< 1	ug/L	
J13-SG02	5.0	6/26/94	M8020	Toluene	< 1	ug/L	
J13-SG02	5.0	6/26/94	M8020	Total FID Volatiles	< 10	ug/L	
J13-SG02	5.0	6/26/94	M8020	Total Xylene Isomers	< 1	ug/L	

J13-SG03	5.0	6/26/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J13-SG03	5.0	6/26/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J13-SG03	5.0	6/26/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J13-SG03	5.0	6/26/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J13-SG03	5.0	6/26/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J13-SG03	5.0	6/26/94	M8010	Chloroform	< 1	ug/L	
J13-SG03	5.0	6/26/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J13-SG03	5.0	6/26/94	M8010	Methylene Chloride	< 1	ug/L	
J13-SG03	5.0	6/26/94	M8010	Tetrachloroethene	< 1	ug/L	
J13-SG03	5.0	6/26/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J13-SG03	5.0	6/26/94	M8010	Trichloroethene	< 1	ug/L	
J13-SG03	5.0	6/26/94	M8020	Benzene	< 1	ug/L	
J13-SG03	5.0	6/26/94	M8020	Ethylbenzene	< 1	ug/L	
J13-SG03	5.0	6/26/94	M8020	Toluene	< 1	ug/L	
J13-SG03	5.0	6/26/94	M8020	Total FID Volatiles	< 10	ug/L	
J13-SG03	5.0	6/26/94	M8020	Total Xylene Isomers	< 1	ug/L	



Summary Table of Analytical Data

SWMU J13 - WADF South Dump

Hawthorne Army Depot

Hawthorne, Nevada

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-SG04	5.0	6/26/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J13-SG04	5.0	6/26/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J13-SG04	5.0	6/26/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J13-SG04	5.0	6/26/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J13-SG04	5.0	6/26/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J13-SG04	5.0	6/26/94	M8010	Chloroform	< 1	ug/L	
J13-SG04	5.0	6/26/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J13-SG04	5.0	6/26/94	M8010	Methylene Chloride	< 1	ug/L	
J13-SG04	5.0	6/26/94	M8010	Tetrachloroethene	< 1	ug/L	
J13-SG04	5.0	6/26/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J13-SG04	5.0	6/26/94	M8010	Trichloroethene	< 1	ug/L	
J13-SG04	5.0	6/26/94	M8020	Benzene	< 1	ug/L	
J13-SG04	5.0	6/26/94	M8020	Ethylbenzene	< 1	ug/L	
J13-SG04	5.0	6/26/94	M8020	Toluene	< 1	ug/L	
J13-SG04	5.0	6/26/94	M8020	Total FID Volatiles	< 10	ug/L	
J13-SG04	5.0	6/26/94	M8020	Total Xylene Isomers	< 1	ug/L	

J13-SG05	5.0	6/26/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J13-SG05	5.0	6/26/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J13-SG05	5.0	6/26/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J13-SG05	5.0	6/26/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J13-SG05	5.0	6/26/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J13-SG05	5.0	6/26/94	M8010	Chloroform	< 1	ug/L	
J13-SG05	5.0	6/26/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J13-SG05	5.0	6/26/94	M8010	Methylene Chloride	< 1	ug/L	
J13-SG05	5.0	6/26/94	M8010	Tetrachloroethene	< 1	ug/L	
J13-SG05	5.0	6/26/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J13-SG05	5.0	6/26/94	M8010	Trichloroethene	< 1	ug/L	
J13-SG05	5.0	6/26/94	M8020	Benzene	< 1	ug/L	
J13-SG05	5.0	6/26/94	M8020	Ethylbenzene	< 1	ug/L	
J13-SG05	5.0	6/26/94	M8020	Toluene	< 1	ug/L	
J13-SG05	5.0	6/26/94	M8020	Total FID Volatiles	< 10	ug/L	
J13-SG05	5.0	6/26/94	M8020	Total Xylene Isomers	< 1	ug/L	

J13-SG06	5.0	6/26/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J13-SG06	5.0	6/26/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J13-SG06	5.0	6/26/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J13-SG06	5.0	6/26/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J13-SG06	5.0	6/26/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J13-SG06	5.0	6/26/94	M8010	Chloroform	< 1	ug/L	
J13-SG06	5.0	6/26/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J13-SG06	5.0	6/26/94	M8010	Methylene Chloride	< 1	ug/L	
J13-SG06	5.0	6/26/94	M8010	Tetrachloroethene	< 1	ug/L	
J13-SG06	5.0	6/26/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J13-SG06	5.0	6/26/94	M8010	Trichloroethene	< 1	ug/L	



Summary Table of Analytical Data

SWMU J13 - WADF South Dump

Hawthorne Army Depot

Hawthorne, Nevada

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-SG06	5.0	6/26/94	M8020	Benzene	< 1	ug/L	
J13-SG06	5.0	6/26/94	M8020	Ethylbenzene	< 1	ug/L	
J13-SG06	5.0	6/26/94	M8020	Toluene	< 1	ug/L	
J13-SG06	5.0	6/26/94	M8020	Total FID Volatiles	< 10	ug/L	
J13-SG06	5.0	6/26/94	M8020	Total Xylene Isomers	< 1	ug/L	

J13-SG07	5.0	6/26/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J13-SG07	5.0	6/26/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J13-SG07	5.0	6/26/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J13-SG07	5.0	6/26/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J13-SG07	5.0	6/26/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J13-SG07	5.0	6/26/94	M8010	Chloroform	< 1	ug/L	
J13-SG07	5.0	6/26/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J13-SG07	5.0	6/26/94	M8010	Methylene Chloride	< 1	ug/L	
J13-SG07	5.0	6/26/94	M8010	Tetrachloroethene	< 1	ug/L	
J13-SG07	5.0	6/26/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J13-SG07	5.0	6/26/94	M8010	Trichloroethene	< 1	ug/L	
J13-SG07	5.0	6/26/94	M8020	Benzene	< 1	ug/L	
J13-SG07	5.0	6/26/94	M8020	Ethylbenzene	< 1	ug/L	
J13-SG07	5.0	6/26/94	M8020	Toluene	< 1	ug/L	
J13-SG07	5.0	6/26/94	M8020	Total FID Volatiles	< 10	ug/L	
J13-SG07	5.0	6/26/94	M8020	Total Xylene Isomers	< 1	ug/L	

J13-SG08	5.0	6/26/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J13-SG08	5.0	6/26/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J13-SG08	5.0	6/26/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J13-SG08	5.0	6/26/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J13-SG08	5.0	6/26/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J13-SG08	5.0	6/26/94	M8010	Chloroform	< 1	ug/L	
J13-SG08	5.0	6/26/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J13-SG08	5.0	6/26/94	M8010	Methylene Chloride	< 1	ug/L	
J13-SG08	5.0	6/26/94	M8010	Tetrachloroethene	< 1	ug/L	
J13-SG08	5.0	6/26/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J13-SG08	5.0	6/26/94	M8010	Trichloroethene	< 1	ug/L	
J13-SG08	5.0	6/26/94	M8020	Benzene	< 1	ug/L	
J13-SG08	5.0	6/26/94	M8020	Ethylbenzene	< 1	ug/L	
J13-SG08	5.0	6/26/94	M8020	Toluene	< 1	ug/L	
J13-SG08	5.0	6/26/94	M8020	Total FID Volatiles	< 10	ug/L	
J13-SG08	5.0	6/26/94	M8020	Total Xylene Isomers	< 1	ug/L	

J13-SG09	5.0	6/26/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J13-SG09	5.0	6/26/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J13-SG09	5.0	6/26/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J13-SG09	5.0	6/26/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J13-SG09	5.0	6/26/94	M8010	Carbon Tetrachloride	< 1	ug/L	



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Summary Table of Analytical Data**SWMU J13 - WADF South Dump**

Hawthorne Army Depot

Hawthorne, Nevada

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J13-SG09	5.0	6/26/94	M8010	Chloroform	< 1	ug/L	
J13-SG09	5.0	6/26/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J13-SG09	5.0	6/26/94	M8010	Methylene Chloride	< 1	ug/L	
J13-SG09	5.0	6/26/94	M8010	Tetrachloroethene	< 1	ug/L	
J13-SG09	5.0	6/26/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J13-SG09	5.0	6/26/94	M8010	Trichloroethene	< 1	ug/L	
J13-SG09	5.0	6/26/94	M8020	Benzene	< 1	ug/L	
J13-SG09	5.0	6/26/94	M8020	Ethylbenzene	< 1	ug/L	
J13-SG09	5.0	6/26/94	M8020	Toluene	< 1	ug/L	
J13-SG09	5.0	6/26/94	M8020	Total FID Volatiles	< 10	ug/L	
J13-SG09	5.0	6/26/94	M8020	Total Xylene Isomers	< 1	ug/L	

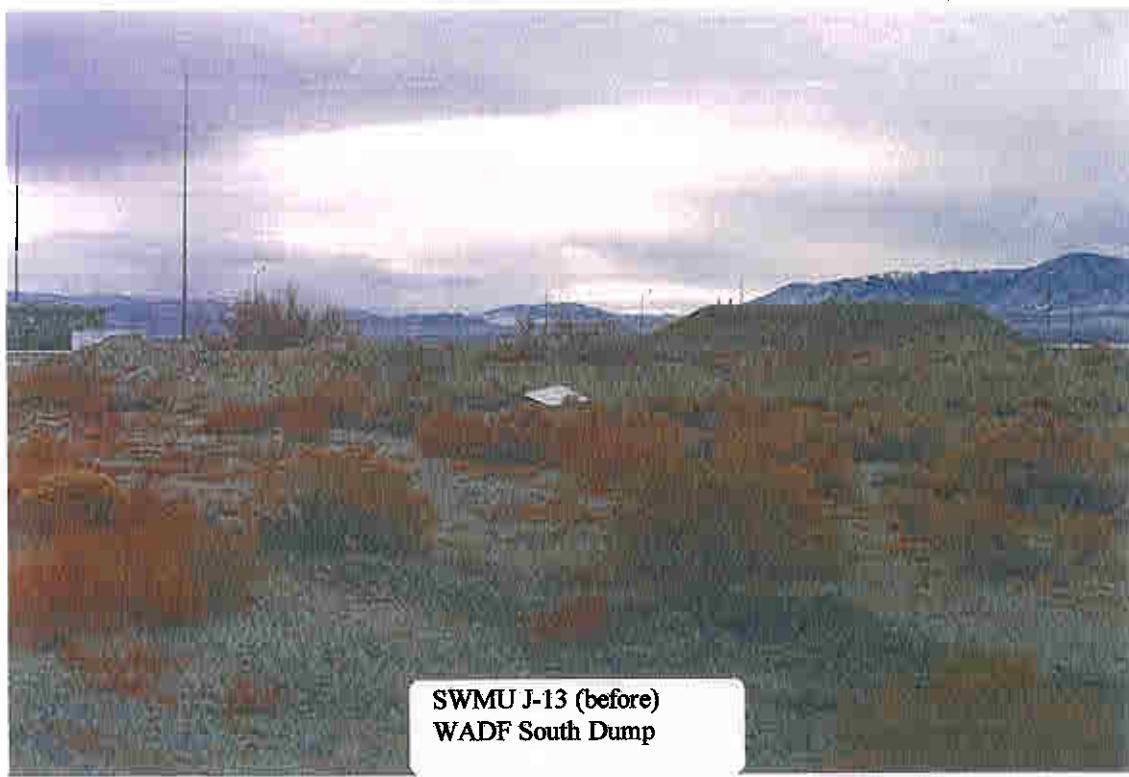
Appendix C

Survey Data at SWMU J-13
Hawthorne Army Depot
Hawthorne, Nevada

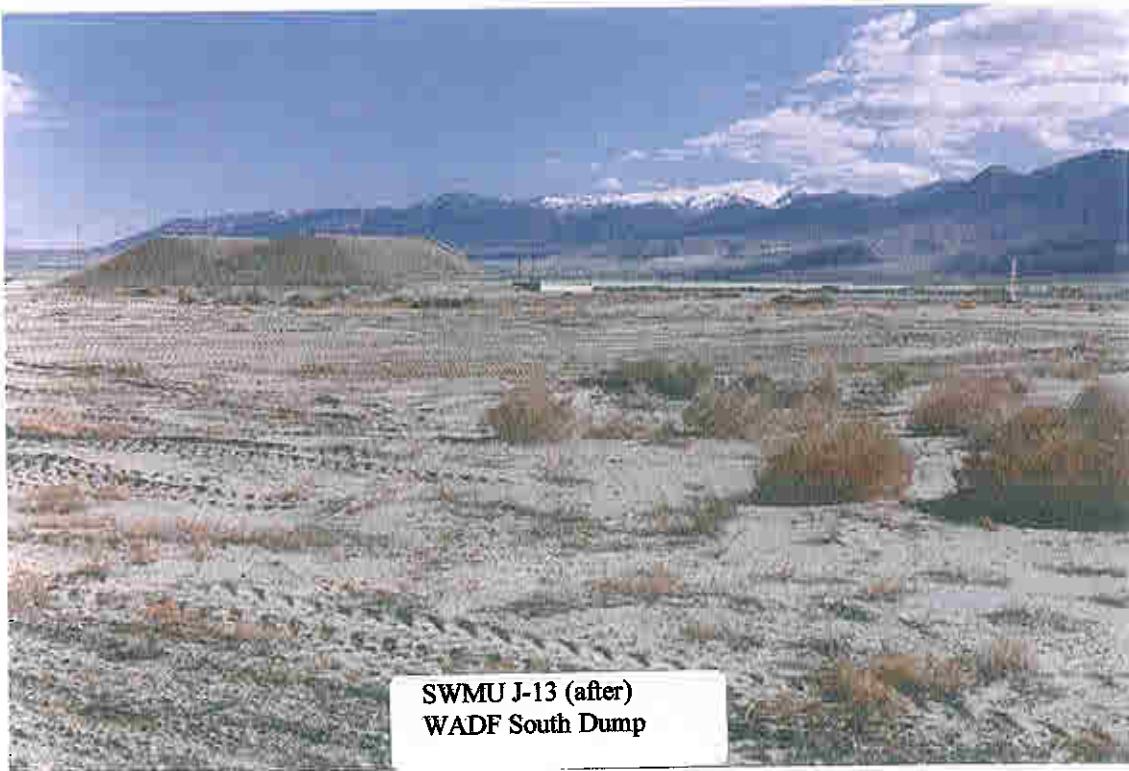
Point Name	Northing	Easting
J13LAZ01	478459.48	1398975.95
HA-1	478579.13	1398992.54
HA-2	478555.33	1398833.46
HA-3	478501.21	1398965.71
HA-4	478405	1398835.96
HA-5	478437.57	1398698.17
SB-1	478556.02	1398886.63
SB-2	478335.76	1399009.18
SB-3	478326.23	1398891.95
SG-1	478630.92	1398929.19
SG-2	478603.16	1398860.75
SG-3	478542.65	1398955.11
SG-4	478466.98	1398700.99
SG-5	478526.84	1398878.66
SG-6	478459.18	1398975.65
SG-7	478466.98	1398618.37
SG-8	478368.18	1398812.87
SG-9	478345.09	1398887.91

Footnote: Survey data in Nevada State Plane West, 1927 coordinates.

Appendix D



SWMU J-13 (before)
WADF South Dump



SWMU J-13 (after)
WADF South Dump